

AMENDMENTS TO THE CLAIMS

Claims 1-29 (Cancelled)

Claim 30. (New)

A data transmission system, comprising:

a transmitter which adds control data to transmission data, and modulates the resultant signal by a predetermined modulation method and sends the result in a wireless manner;

a receiver, said receiver detecting received power intensity by use of the control data contained in the transmitted signals; and

wherein said control data includes a reception-power detection portion transmitted by said transmitter, said reception power detecting portion having a wide spectrum signal whose period is longer than the maximum delay of a delayed waves as prescribed in the channel model of the wireless communication system, said wide spectrum signal being used for detecting reception power intensity.

Claim 31. (New)

A data transmitter in use with a data transmission system according to claim 30, said data transmitter comprising:

wide spectrum signal-adding means for adding a wide spectrum signal to a reception-power detecting portion for detecting a reception power intensity, which is contained in the control data.

Claim 32. (New)

A data receiver in use with a data transmission system according to claim 30, said data receiver comprising:

a reception-power intensity adjusting means for detecting a reception power intensity in said reception-power detecting portion and adjusting a reception power intensity of the subsequent transmission data portion when a wide spectrum signal is added to a reception-power detecting portion for detecting a reception power intensity which is contained in the control data, and said reception-power detecting portion is located preceding to said transmission data.